

Title (en)

Process for the preparation of yeast microcapsules

Title (de)

Verfahren zur Herstellung von Hefe-Mikrokapseln

Title (fr)

Procédé pour la préparation de microcapsules de la levure

Publication

**EP 1693445 A1 20060823 (EN)**

Application

**EP 05425084 A 20050218**

Priority

EP 05425084 A 20050218

Abstract (en)

Disclosed is a process for the preparation of probiotic yeasts in whole, live, non-freeze-dried cells in the form of microcapsules, which comprises: a) centrifugation or microfiltration of yeast cells from the culture broth; b) washing with water of the yeast cells and resuspension in sterile water; c) possibly, the addition to the suspension obtained in b) of bentonite, kaolin, silica, microcellulose, lecithinated sodium, and/or natural or hydrogenated vegetable or animal oils; d) drying at low pressure of the mixture obtained in c) at a temperature of between 20°C and 40°C to an H<sub>2</sub>O content of between 0.5 and 5%; e) addition of excipients to the dried substance and direct compression of the mixture; f) granulation of the tablets obtained in e); g) coating of the granules obtained in f) with molten wax.

IPC 8 full level

**C12N 1/16** (2006.01); **A61K 9/50** (2006.01); **A61K 36/06** (2006.01); **C12N 1/04** (2006.01); **C12P 1/02** (2006.01)

CPC (source: EP KR)

**A61K 9/5015** (2013.01 - EP); **A61K 36/064** (2013.01 - EP); **A61P 1/12** (2017.12 - EP); **C12N 1/04** (2013.01 - EP); **C12N 1/16** (2013.01 - KR); **C12N 1/18** (2013.01 - KR)

Citation (search report)

- [XDA] US 5665352 A 19970909 - BLEHAUT HENRI [FR], et al
- [XDA] US 4643897 A 19870217 - GAYRAL PHILIPPE G [FR], et al
- [XA] US 2523483 A 19500926 - MORRIS STERN
- [X] EP 0862863 A2 19980909 - NESTLE SA [CH]
- [X] EP 0636692 A1 19950201 - LESAFFRE & CIE [FR]
- [AD] US 6159466 A 20001212 - YANG PING [US], et al
- [X] PATENT ABSTRACTS OF JAPAN vol. 1997, no. 07 31 July 1997 (1997-07-31)

Cited by

WO2013083693A1; DE102011087849A1; DE102012216190A1; DE102011087850A1; FR2917291A1; CN112055611A; EP2028265A1; US9289517B2; US11178881B2; US9180210B2; WO2008155285A1; WO2009000924A1; WO2009024605A1; US10092506B2

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

**EP 1693445 A1 20060823**; **EP 1693445 B1 20080102**; **EP 1693445 B2 20160608**; AT E382677 T1 20080115; DE 602005004114 D1 20080214; DE 602005004114 T2 20081218; DE 602005004114 T3 20161027; JP 2006223306 A 20060831; KR 101314745 B1 20131008; KR 20060093038 A 20060823

DOCDB simple family (application)

**EP 05425084 A 20050218**; AT 05425084 T 20050218; DE 602005004114 T 20050218; JP 2006038801 A 20060216; KR 20060014463 A 20060215